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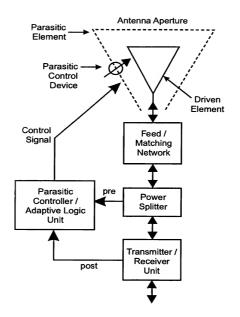


Fig. 1

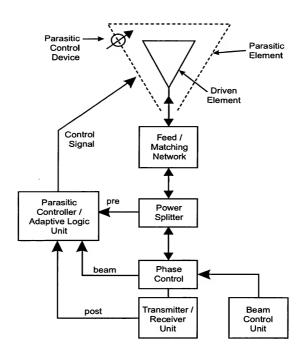


Fig. 2

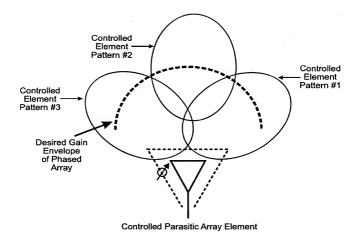
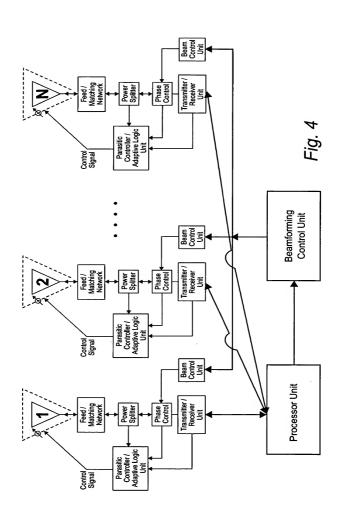
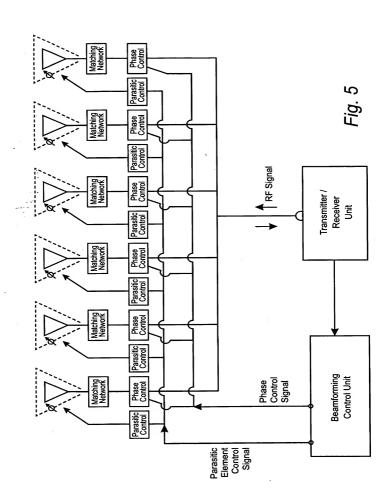
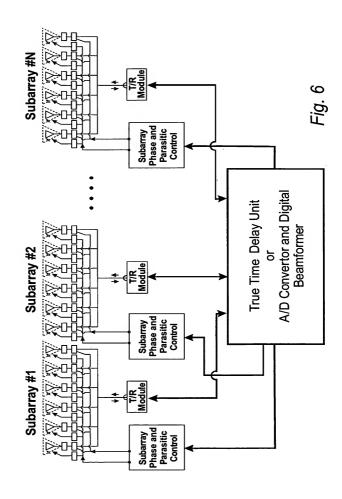
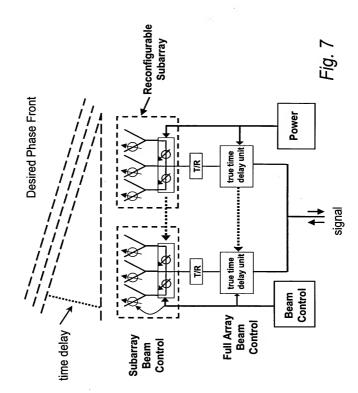


Fig. 3









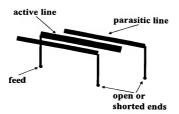


Fig. 8

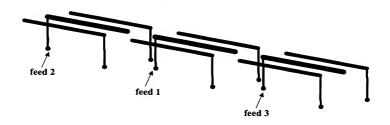


Fig. 9

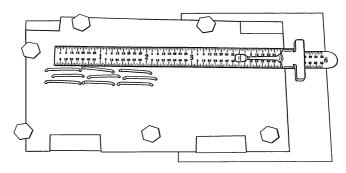


Fig. 10

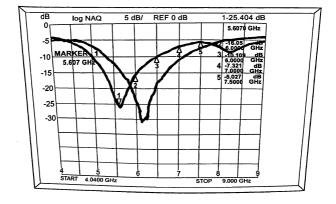


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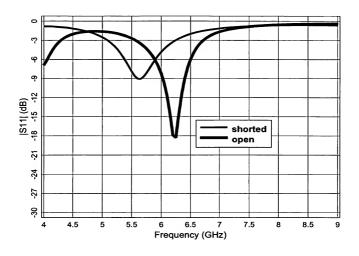


Fig. 12

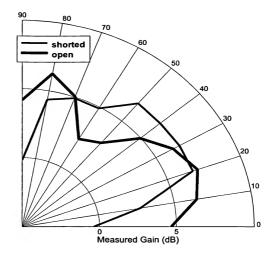


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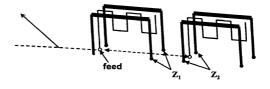


Fig. 14

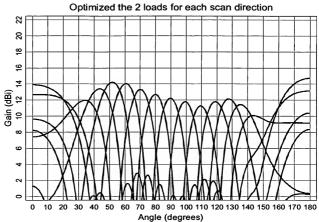


Fig. 15

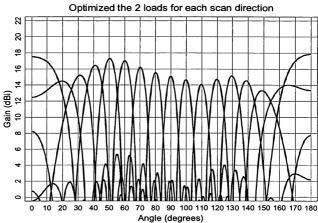


Fig. 16

Antenna Gain (dBi) 10.5 GHz Optimized the 2 loads for each scan direction (lgp) (lg

Fig. 17

Antenna Gain (dBi) 10.5 GHz Optimized the 2 loads for each scan direction 89 91 72 0 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 Angle (degrees)

Fig. 18

Antenna Gain (dBi) 10.5 GHz Optimized the 2 loads for each scan direction 89 91 10.20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

Fig. 19

Angle (degrees)

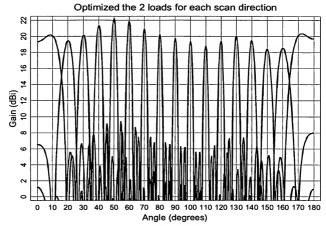
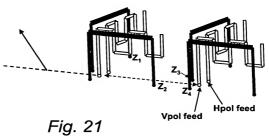


Fig. 20



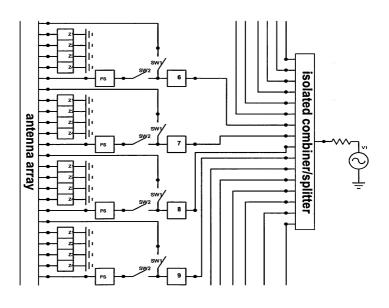


Fig. 22

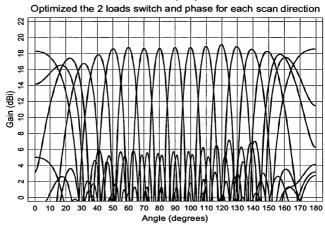


Fig. 23

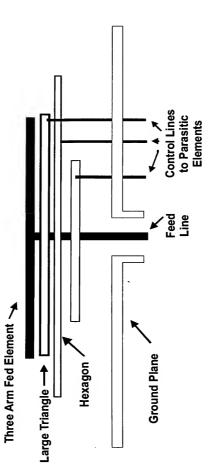


Fig. 24

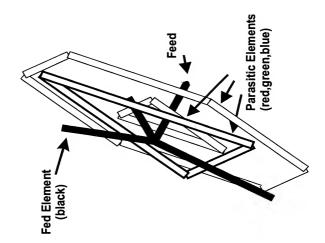


Fig. 25

